

# Recovery Plan Action Status

**Plan Name: Native Forest Birds of Guam and Rota of the Commonwealth of the Northern Mariana Islands Recovery Plan**

**Plan Status: Final**

**Plan Date: 28-Sep-90**

**Lead Agency: USFWS**

**Lead Office: Pacific Islands Fish And Wildlife Office**

**(7808)**

**(792-9400 )**

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Guam Micronesian kingfisher (Halcyon cinnamomina), Mariana (=aga) Crow (Corvus kubaryi), Guam rail (Rallus owstoni), Bridled white-eye (Zosterops conspicillatus)	3	1	Develop Cooperative Agreement Between USFWS, CNMI, and Guam	Complete	Prior to FY 1995	FY 2000 - FY 2004	Guam Division of Aquatic & Wildlife Resources, Division of Fish and Wildlife, Commonwealth of the Northern Mariana Islands, U.S. Fish and Wildlife Service, Federal Aid	Other: Administration, Other: Regulations	Internal Administrative	
Guam Micronesian kingfisher (Halcyon cinnamomina), Mariana (=aga) Crow (Corvus kubaryi), Guam rail (Rallus owstoni), Bridled white-eye (Zosterops conspicillatus)	2	21	Conduct endangered bird surveys on Guam	Ongoing Current	Prior to FY 1995		Guam Division of Aquatic & Wildlife Resources	Research: Population Surveys	Internal Field Assistance	
Guam Micronesian kingfisher (Halcyon cinnamomina), Mariana (=aga) Crow (Corvus kubaryi), Guam rail (Rallus owstoni)	1	311	Study breeding biology on Guam	Discontinued	Prior to FY 1995		Guam Division of Aquatic & Wildlife Resources	Research: Demographic Studies	Internal Field Assistance	Note from Marilet A. Zablan, PIFWO, 11/15/05: For entire Implementation Table in ROAR, Party abbreviations used should be exactly & only those used in the Recovery Plan. Work associated with this task only applies for Mariana crow and will be superseded by the 2006 draft revised recovery plan for the crow. Guam rail and Guam Micronesian kingfisher were extirpated.

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Guam Micronesian kingfisher (Halcyon cinnamomina), Guam rail (Rallus owstoni)	1	321	Continue capturing kingfishers and rails	Obsolete			Guam Division of Aquatic & Wildlife Resources	Management: Propagation	Internal Field Assistance	The Guam rail and Guam Micronesian kingfisher were both extirpated in the wild on Guam.
Guam rail (Rallus owstoni)	1	3221	Develop and maintain a rail breeding colony on Guam to hold 100 rails	Ongoing Current	Prior to FY 1995		Guam Division of Aquatic & Wildlife Resources	Management: Propagation	Internal Field Assistance	
Guam rail (Rallus owstoni)	1	3222	Develop and maintain stateside zoo facilities for up to 150 rails	Ongoing Current	Prior to FY 1995		American Association of Zoological Parks and Aquariums	Management: Propagation	Internal Field Assistance	
Guam Micronesian kingfisher (Halcyon cinnamomina), Mariana (=aga) Crow (Corvus kubaryi), Guam rail (Rallus owstoni), Bridled white-eye (Zosterops conspicillatus)	1	411	Complete present research into the cause of the avian decline on Guam	Complete	Prior to FY 1995	Prior to FY 1995	Guam Division of Aquatic & Wildlife Resources	Research: Competition, Research: Disease, Research: Environmental Contaminants, Research: Predation	Contract, Graduate Student, Internal Field Assistance	
Guam Micronesian kingfisher (Halcyon cinnamomina), Mariana (=aga) Crow (Corvus kubaryi), Guam rail (Rallus owstoni), Bridled white-eye (Zosterops conspicillatus)	1	412	Investigate the prevalence of disease in the Northern Mariana Islands	Obsolete			Division of Fish and Wildlife, Commonwealth of the Northern Mariana Islands, U.S. Geological Survey, Biological Resources Division	Research: Disease	Graduate Student, Internal Field Assistance	
Guam Micronesian kingfisher (Halcyon cinnamomina), Mariana (=aga) Crow (Corvus kubaryi), Guam rail (Rallus owstoni)	2	413	Monitor for disease	Ongoing Current	Prior to FY 1995		Guam Division of Aquatic & Wildlife Resources	Research: Disease	Contract, Internal Field Assistance	This applies to captive rails.

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Guam Micronesian kingfisher (Halcyon cinnamomina), Mariana (=aga) Crow (Corvus kubaryi), Guam rail (Rallus owstoni), Bridled white-eye (Zosterops conspicillatus)	2	4141	Restrict importation of exotic birds to Guam and Rota	Ongoing Not Current	Prior to FY 1995		Guam Department of Agriculture, Guam Division of Aquatic & Wildlife Resources, Division of Fish and Wildlife, Commonwealth of the Northern Mariana Islands, Guam Customs and Quarantine Agency, Customs and Quarantine, Commonwealth of the Northern Mariana Islands	Management: Disease Control, Management: Predator and Competitor Control	Internal Field Assistance	
Guam Micronesian kingfisher (Halcyon cinnamomina), Mariana (=aga) Crow (Corvus kubaryi), Guam rail (Rallus owstoni)	2	4142	Implement stricter screening requirements for import of birds	Ongoing Not Current	Prior to FY 1995		Guam Department of Agriculture, Guam Division of Aquatic & Wildlife Resources, Division of Fish and Wildlife, Commonwealth of the Northern Mariana Islands, Guam Customs and Quarantine Agency, Customs and Quarantine, Commonwealth of the Northern Mariana Islands	Management: Disease Control	Internal Field Assistance	
Guam Micronesian kingfisher (Halcyon cinnamomina), Mariana (=aga) Crow (Corvus kubaryi), Guam rail (Rallus owstoni)	2	4143	Prohibit release of exotic birds on Guam and Rota	Not Started			Guam Division of Aquatic & Wildlife Resources, Division of Fish and Wildlife, Commonwealth of the Northern Mariana Islands	Other: Law Enforcement, Other: Regulations	Internal Administrative, Internal Field Assistance	
Guam Micronesian kingfisher (Halcyon cinnamomina), Mariana (=aga) Crow (Corvus kubaryi), Guam rail (Rallus owstoni)	2	4144	Screen incoming aircraft and ships for disease vectors	Not Started			Guam Customs and Quarantine Agency, Customs and Quarantine, Commonwealth of the Northern Mariana Islands, United States Air Force , United States Navy	Management: Disease Control	Internal Administrative, Internal Field Assistance	

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Guam Micronesian kingfisher (Halcyon cinnamomina cinnamomina), Mariana (=aga) Crow (Corvus kubaryi), Guam rail (Rallus owstoni)	2	42	Monitor pesticide usage & enforce laws	Ongoing Current	Prior to FY 1995		Commonwealth of the Northern Mariana Islands, Guam Environmental Protection Agency	Other: Regulations	Internal Administrative, Internal Field Assistance	
Guam Micronesian kingfisher (Halcyon cinnamomina cinnamomina), Mariana (=aga) Crow (Corvus kubaryi), Guam rail (Rallus owstoni)	2	431	Determine impact of dog, cat and rat predation & implement control	Ongoing Current	Prior to FY 1995		Guam Division of Aquatic & Wildlife Resources, Division of Fish and Wildlife, Commonwealth of the Northern Mariana Islands	Management: Predator and Competitor Control, Research: Predation	Graduate Student, Internal Field Assistance	
Guam Micronesian kingfisher (Halcyon cinnamomina cinnamomina), Mariana (=aga) Crow (Corvus kubaryi), Guam rail (Rallus owstoni)	1	43211	Study the [brown treesnake] home range, diurnal retreats, and activity patterns	Partially Complete	Prior to FY 1995		Guam Division of Aquatic & Wildlife Resources, U.S. Geological Survey, Biological Resources Division	Research: Predation	Graduate Student, Internal Field Assistance, Species Expert	
Guam Micronesian kingfisher (Halcyon cinnamomina cinnamomina), Mariana (=aga) Crow (Corvus kubaryi), Guam rail (Rallus owstoni)	1	43212	Continue study of breeding biology [of brown treesnake] on Guam	Partially Complete	Prior to FY 1995		Guam Division of Aquatic & Wildlife Resources, U.S. Geological Survey, Biological Resources Division	Research: Predation	Graduate Student, Internal Field Assistance, Species Expert	
Guam Micronesian kingfisher (Halcyon cinnamomina cinnamomina), Mariana (=aga) Crow (Corvus kubaryi), Guam rail (Rallus owstoni), Bridled white-eye (Zosterops conspicillatus conspicillatus)	1	43213	Determine the origin of the Guam population of brown tree snake and initiate research on its biology (particularly causes of mortality and limiting factors) in its native range	Complete	Prior to FY 1995	FY 2007	U.S. Geological Survey, Biological Resources Division	Research: Predation	Graduate Student, Internal Field Assistance, Species Expert	
Guam Micronesian kingfisher (Halcyon cinnamomina cinnamomina), Mariana (=aga) Crow (Corvus kubaryi), Guam rail (Rallus owstoni)	1	43214	Continue research on feeding habits, snake population age structure, and densities on Guam	Partially Complete	Prior to FY 1995		Guam Division of Aquatic & Wildlife Resources, U.S. Geological Survey, Biological Resources Division	Research: Predation	Graduate Student, Internal Field Assistance, Species Expert	

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Guam Micronesian kingfisher (Halcyon cinnamomina cinnamomina), Mariana (=aga) Crow (Corvus kubaryi), Guam rail (Rallus owstoni)	1	43221	Investigate snake attractants (including pheromones) and develop potential traps	Partially Complete	Prior to FY 1995		U.S. Geological Survey, Biological Resources Division, U.S. Animal and Plant Health Inspection Service, Wildlife Services (formerly Animal Damage Control)	Research: Management Techniques	Graduate Student, Internal Field Assistance	
Guam Micronesian kingfisher (Halcyon cinnamomina cinnamomina), Mariana (=aga) Crow (Corvus kubaryi), Guam rail (Rallus owstoni)	1	43222	Test possible repellents and barriers to snake movement	Partially Complete	Prior to FY 1995		Guam Division of Aquatic & Wildlife Resources, U.S. Geological Survey, Biological Resources Division	Research: Management Techniques	Graduate Student, Internal Field Assistance	
Guam Micronesian kingfisher (Halcyon cinnamomina cinnamomina), Mariana (=aga) Crow (Corvus kubaryi), Guam rail (Rallus owstoni)	1	43223	Investigate possible chemical and biological methods of [brown treesnake] control	Partially Complete	Prior to FY 1995		U.S. Geological Survey, Biological Resources Division, U.S. Animal and Plant Health Inspection Service, Wildlife Services (formerly Animal Damage Control)	Research: Management Techniques	Graduate Student, Internal Field Assistance	Recently determined that biological is not cost effective.
Guam Micronesian kingfisher (Halcyon cinnamomina cinnamomina), Mariana (=aga) Crow (Corvus kubaryi), Guam rail (Rallus owstoni), Bridled white-eye (Zosterops conspicillatus conspicillatus)	1	43224	Investigate the potential of a snake hide industry and/or bounty and encourage take of snake for food	Complete	Prior to FY 1995	Prior to FY 1995	Guam Division of Aquatic & Wildlife Resources	Management: Predator and Competitor Control	Internal Administrative, Internal Field Assistance	
Guam Micronesian kingfisher (Halcyon cinnamomina cinnamomina), Mariana (=aga) Crow (Corvus kubaryi), Guam rail (Rallus owstoni), Bridled white-eye (Zosterops conspicillatus conspicillatus)	1	43231	Reduce snake populations or eradicate snakes in areas of remaining native bird species	Obsolete	FY 2000 - FY 2004		Guam Division of Aquatic & Wildlife Resources, U.S. Animal and Plant Health Inspection Service, Wildlife Services (formerly Animal Damage Control), United States Air Force	Management: Predator and Competitor Control	Internal Administrative, Internal Field Assistance	There are no longer remaining wild populations of Guam rails or bridled white-eyes on Guam.

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Guam Micronesian kingfisher (Halcyon cinnamomina), Mariana (=aga) Crow (Corvus kubaryi), Guam rail (Rallus owstoni)	1	43233	Reduce or eradicate snakes on Guam prior to reintroduction of captive-bred birds	Ongoing Not Current	FY 1995 - FY 1999		Guam Division of Aquatic & Wildlife Resources, U.S. Animal and Plant Health Inspection Service, Wildlife Services (formerly Animal Damage Control)	Management: Predator and Competitor Control	Internal Field Assistance	
Guam Micronesian kingfisher (Halcyon cinnamomina), Mariana (=aga) Crow (Corvus kubaryi), Guam rail (Rallus owstoni), Bridled white-eye (Zosterops conspicillatus)	1	43241	Inform public, military and officials on hazards of snake introduction	Partially Complete	Prior to FY 1995		Commonwealth of the Northern Mariana Islands, Guam Division of Aquatic & Wildlife Resources, Division of Fish and Wildlife, Commonwealth of the Northern Mariana Islands, U.S. Fish and Wildlife Service, Endangered Species Division, U.S. Animal and Plant Health Inspection Service, Wildlife Services (formerly Animal Damage Control)	Other: Information and Education	Contract, Internal Administrative, Internal Field Assistance	
Guam Micronesian kingfisher (Halcyon cinnamomina), Mariana (=aga) Crow (Corvus kubaryi), Guam rail (Rallus owstoni)	1	43242	Implement stricter screening of cargo exported from Guam to Rota	Partially Complete	FY 2000 - FY 2004		Division of Fish and Wildlife, Commonwealth of the Northern Mariana Islands, U.S. Animal and Plant Health Inspection Service, Wildlife Services (formerly Animal Damage Control)	Management: Predator and Competitor Control	Internal Field Assistance	

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Guam Micronesian kingfisher (Halcyon cinnamomina cinnamomina), Mariana (=aga) Crow (Corvus kubaryi), Guam rail (Rallus owstoni)	1	43243	Reduce snake populations in cargo dispatch areas	Partially Complete	FY 2000 - FY 2004		Guam Department of Agriculture, Commonwealth of the Northern Mariana Islands, Guam Customs and Quarantine Agency, U.S. Federal Aviation Administration, U.S. Animal and Plant Health Inspection Service, Wildlife Services (formerly Animal Damage Control), United States Air Force , United States Navy	Management: Predator and Competitor Control	Contract, Internal Administrative, Internal Field Assistance	
Guam Micronesian kingfisher (Halcyon cinnamomina cinnamomina), Mariana (=aga) Crow (Corvus kubaryi), Guam rail (Rallus owstoni)	1	43244	Develop methods to monitor for introduction of snakes on Rota	Partially Complete	FY 2000 - FY 2004		Division of Fish and Wildlife, Commonwealth of the Northern Mariana Islands, U.S. Geological Survey, Biological Resources Division	Management: Predator and Competitor Control	Graduate Student, Internal Field Assistance	Initial efforts have begun
Guam Micronesian kingfisher (Halcyon cinnamomina cinnamomina), Mariana (=aga) Crow (Corvus kubaryi), Guam rail (Rallus owstoni)	2	433	Prevent importation & establishment of additional avian predators on Guam and Rota	Ongoing Current	Prior to FY 1995		Guam Department of Agriculture, Guam Division of Aquatic & Wildlife Resources, Division of Fish and Wildlife, Commonwealth of the Northern Mariana Islands, Guam Customs and Quarantine Agency, Customs and Quarantine, Commonwealth of the Northern Mariana Islands, U.S. Animal and Plant Health Inspection Service, Wildlife Services (formerly Animal Damage Control)	Management: Predator and Competitor Control	Internal Field Assistance	

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Guam Micronesian kingfisher (Halcyon cinnamomina cinnamomina), Mariana (=aga) Crow (Corvus kubaryi), Guam rail (Rallus owstoni)	3	5111	Perserve and manage existing secure essential habitat: Naval Facility	Ongoing Not Current	Prior to FY 1995		U.S. Fish and Wildlife Service, Endangered Species Division, United States Navy	Management: Habitat Maintenance and Manipulation	Internal Administrative, Internal Field Assistance	Some of the areas listed as essential habitat are scheduled for development as part of DoD expansion on Guam. The remaining continues to be managed by DoD.
Guam Micronesian kingfisher (Halcyon cinnamomina cinnamomina), Mariana (=aga) Crow (Corvus kubaryi), Guam rail (Rallus owstoni)	3	51121	Perserve and manage existing secure essential habitat: Coastal Forest, AAFB	Ongoing Current	Prior to FY 1995		U.S. Fish and Wildlife Service, Endangered Species Division, United States Air Force	Management: Habitat Maintenance and Manipulation	Internal Administrative, Internal Field Assistance	
Guam Micronesian kingfisher (Halcyon cinnamomina cinnamomina), Mariana (=aga) Crow (Corvus kubaryi), Guam rail (Rallus owstoni)	3	51122	Perserve and manage existing secure essential habitat: Convential Weapons Storage Area, AAFB	Ongoing Not Current	Prior to FY 1995		U.S. Fish and Wildlife Service, Endangered Species Division, United States Air Force	Management: Habitat Maintenance and Manipulation	Internal Administrative, Internal Field Assistance	Some of the areas listed as essential habitat are scheduled for development as part of DoD expansion on Guam. The remaining continues to be managed by DoD.
Guam Micronesian kingfisher (Halcyon cinnamomina cinnamomina), Mariana (=aga) Crow (Corvus kubaryi), Guam rail (Rallus owstoni)	3	51123	Perserve and manage existing secure essential habitat: Northwest Field, AAFB	Ongoing Not Current	Prior to FY 1995		U.S. Fish and Wildlife Service, Endangered Species Division, United States Air Force	Management: Habitat Maintenance and Manipulation	Internal Administrative, Internal Field Assistance	Some of the areas listed as essential habitat are scheduled for development as part of DoD expansion on Guam. The remaining continues to be managed by DoD.
Guam Micronesian kingfisher (Halcyon cinnamomina cinnamomina), Mariana (=aga) Crow (Corvus kubaryi), Guam rail (Rallus owstoni)	3	51124	Perserve and manage existing secure essential habitat: Harmon Annex, AAFB	Not Started			Guam Division of Aquatic & Wildlife Resources, U.S. Fish and Wildlife Service, Endangered Species Division	Acquisition: Management Agreement, Management: Habitat Maintenance and Manipulation	Internal Administrative, Internal Field Assistance	
Guam Micronesian kingfisher (Halcyon cinnamomina cinnamomina), Mariana (=aga) Crow (Corvus kubaryi), Guam rail (Rallus owstoni)	3	5113	Perserve and manage existing secure essential habitat: Forest on former FAA property	Not Started			Guam Division of Aquatic & Wildlife Resources, U.S. Fish and Wildlife Service, Endangered Species Division	Acquisition: Management Agreement, Management: Habitat Maintenance and Manipulation	Internal Administrative, Internal Field Assistance	



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Guam Micronesian kingfisher (Halcyon cinnamomina cinnamomina), Mariana (=aga) Crow (Corvus kubaryi), Guam rail (Rallus owstoni)	3	5114	Perserve and manage existing secure essential habitat: Forest on NAVCAMs property	Ongoing Not Current	Prior to FY 1995		U.S. Fish and Wildlife Service, Endangered Species Division, United States Navy	Management: Habitat Maintenance and Manipulation	Internal Administrative, Internal Field Assistance	Some of the areas listed as essential habitat are scheduled for development as part of DoD expansion on Guam. The remaining continues to be managed by DoD.
Guam Micronesian kingfisher (Halcyon cinnamomina cinnamomina), Mariana (=aga) Crow (Corvus kubaryi), Guam rail (Rallus owstoni)	3	5121	Perserve and manage existing secure essential habitat: Anao Conservation area	Not Started			Guam Department of Agriculture, Guam Department of Parks and Recreation	Management: Habitat Maintenance and Manipulation	Internal Administrative, Internal Field Assistance	
Guam Micronesian kingfisher (Halcyon cinnamomina cinnamomina), Mariana (=aga) Crow (Corvus kubaryi), Guam rail (Rallus owstoni)	3	5122	Perserve and manage existing secure essential habitat: Pagat & Lumina Basin	Not Started			Guam Department of Agriculture, Guam Department of Land Management	Acquisition: Management Agreement	Internal Field Assistance	
Guam Micronesian kingfisher (Halcyon cinnamomina cinnamomina), Mariana (=aga) Crow (Corvus kubaryi), Guam rail (Rallus owstoni)	3	5123	Perserve and manage existing secure essential habitat: Puntan Dos Amates	Not Started			Guam Department of Agriculture, Guam Department of Parks and Recreation	Acquisition: Management Agreement	Internal Field Assistance	
Guam Micronesian kingfisher (Halcyon cinnamomina cinnamomina), Mariana (=aga) Crow (Corvus kubaryi), Guam rail (Rallus owstoni)	3	5124	Perserve and manage existing secure essential habitat: Falcona Beach	Not Started			Guam Department of Agriculture, Guam Department of Parks and Recreation	Acquisition: Management Agreement	Internal Field Assistance	
Guam Micronesian kingfisher (Halcyon cinnamomina cinnamomina), Mariana (=aga) Crow (Corvus kubaryi), Guam rail (Rallus owstoni)	3	5131	Preserve and manage non-secure essential habitat: Uruno Basin	Not Started			Territory of Guam, Guam Division of Aquatic & Wildlife Resources, U.S. Fish and Wildlife Service, Endangered Species Division	Acquisition: Management Agreement	Internal Field Assistance	

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Guam Micronesian kingfisher (Halcyon cinnamomina cinnamomina), Mariana (=aga) Crow (Corvus kubaryi), Guam rail (Rallus owstoni)	3	5132	Preserve and manage non-secure essential habitat: Jinapsan Basin	Not Started			Territory of Guam, Guam Division of Aquatic & Wildlife Resources, U.S. Fish and Wildlife Service, Endangered Species Division	Acquisition: Management Agreement	Internal Field Assistance	
Guam Micronesian kingfisher (Halcyon cinnamomina cinnamomina), Mariana (=aga) Crow (Corvus kubaryi), Guam rail (Rallus owstoni)	3	5133	Preserve and manage non-secure essential habitat: Janum Basin area	Not Started			Territory of Guam, Guam Division of Aquatic & Wildlife Resources, U.S. Fish and Wildlife Service, Endangered Species Division	Acquisition: Management Agreement	Internal Field Assistance	
Guam Micronesian kingfisher (Halcyon cinnamomina cinnamomina), Mariana (=aga) Crow (Corvus kubaryi), Guam rail (Rallus owstoni)	3	5134	Preserve and manage non-secure essential habitat: Amantes Point area	Not Started			Territory of Guam, Guam Division of Aquatic & Wildlife Resources, U.S. Fish and Wildlife Service, Endangered Species Division	Acquisition: Management Agreement, Acquisition: Withdrawal	Internal Field Assistance	
Guam Micronesian kingfisher (Halcyon cinnamomina cinnamomina), Mariana (=aga) Crow (Corvus kubaryi), Guam rail (Rallus owstoni)	3	521	Evaluate essential habitats in southern Guam	Partially Complete	Prior to FY 1995		Guam Division of Aquatic & Wildlife Resources, U.S. Fish and Wildlife Service, Endangered Species Division	Research: Habitat Status	Internal Field Assistance	
Guam Micronesian kingfisher (Halcyon cinnamomina cinnamomina), Mariana (=aga) Crow (Corvus kubaryi), Guam rail (Rallus owstoni)	3	522	Determine priority ratings for essential habitats	Partially Complete	FY 2000 - FY 2004		Guam Division of Aquatic & Wildlife Resources, U.S. Fish and Wildlife Service, Endangered Species Division	Management: Planning	Internal Field Assistance	
Guam Micronesian kingfisher (Halcyon cinnamomina cinnamomina), Mariana (=aga) Crow (Corvus kubaryi), Guam rail (Rallus owstoni)	3	523	Secure management control of essential habitats in southern Guam	Ongoing Current	Prior to FY 1995		Guam Division of Aquatic & Wildlife Resources, U.S. Fish and Wildlife Service, Endangered Species Division, United States Navy	Acquisition: Management Agreement, Acquisition: Withdrawal	Internal Field Assistance	
Guam Micronesian kingfisher (Halcyon cinnamomina cinnamomina), Mariana (=aga) Crow (Corvus kubaryi), Guam rail (Rallus owstoni)	3	61	Develop techniques & implement establishment of native forest when needed	Not Started			Guam Department of Agriculture	Management: Habitat Maintenance and Manipulation, Research: Management Techniques	Graduate Student, Internal Field Assistance	

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Guam Micronesian kingfisher (Halcyon cinnamomina cinnamomina), Mariana (=aga) Crow (Corvus kubaryi), Guam rail (Rallus owstoni)	3	621	Determine effects of Sambar deer on essential habitat & control if necessary	Partially Complete	Prior to FY 1995		Guam Division of Aquatic & Wildlife Resources, United States Air Force , United States Navy	Management: Habitat Maintenance and Manipulation, Research: Management Techniques	Contract, Internal Field Assistance	
Guam Micronesian kingfisher (Halcyon cinnamomina cinnamomina), Mariana (=aga) Crow (Corvus kubaryi), Guam rail (Rallus owstoni)	3	622	Determine impacts of feral goats & pigs on essential habitat & control if necessary	Partially Complete	Prior to FY 1995		Guam Division of Aquatic & Wildlife Resources, United States Air Force , United States Navy	Management: Habitat Maintenance and Manipulation, Research: Management Techniques	Contract, Internal Field Assistance	
Guam Micronesian kingfisher (Halcyon cinnamomina cinnamomina), Mariana (=aga) Crow (Corvus kubaryi), Guam rail (Rallus owstoni)	3	623	Determine impacts of insects on essential habitat & control if necessary	Not Started			University of Guam, Guam Department of Agriculture	Management: Habitat Maintenance and Manipulation, Research: Management Techniques	Contract, Graduate Student, Internal Field Assistance	
Guam Micronesian kingfisher (Halcyon cinnamomina cinnamomina), Mariana (=aga) Crow (Corvus kubaryi), Guam rail (Rallus owstoni)	3	624	Determine impacts of exotic plants on essential habitat & control if necessary	Not Started			University of Guam, Guam Department of Agriculture	Management: Habitat Maintenance and Manipulation, Research: Management Techniques	Contract, Graduate Student, Internal Field Assistance	
Guam Micronesian kingfisher (Halcyon cinnamomina cinnamomina), Mariana (=aga) Crow (Corvus kubaryi), Guam rail (Rallus owstoni)	3	63	Determine habitat needs of birds on Guam and Rota	Partially Complete	Prior to FY 1995		Guam Division of Aquatic & Wildlife Resources, Division of Fish and Wildlife, Commonwealth of the Northern Mariana Islands, U.S. Fish and Wildlife Service, Endangered Species Division	Research: Habitat Requirements	Graduate Student, Internal Field Assistance	
Guam Micronesian kingfisher (Halcyon cinnamomina cinnamomina), Mariana (=aga) Crow (Corvus kubaryi), Guam rail (Rallus owstoni)	3	65	Determine population demography criteria so reclassification / delisting criteria can be set	Partially Complete	Prior to FY 1995		Commonwealth of the Northern Mariana Islands, Guam Division of Aquatic & Wildlife Resources, U.S. Fish and Wildlife Service, Endangered Species Division	Management: Planning, Research: Demographic Studies	Graduate Student, Internal Field Assistance, Species Expert	

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Guam rail (Rallus owstoni)	2	711	Study feasibility of introduction of Guam rail to Rota	Complete	Prior to FY 1995	Prior to FY 1995	Guam Division of Aquatic & Wildlife Resources, Division of Fish and Wildlife, Commonwealth of the Northern Mariana Islands, American Association of Zoological Parks and Aquariums, U.S. Fish and Wildlife Service, Endangered Species Division	Management: Planning	Contract, Internal Field Assistance	
Guam rail (Rallus owstoni)	2	712	Determine Optimum sites for releasing rails on Rota	Ongoing Current	Prior to FY 1995		Guam Division of Aquatic & Wildlife Resources, U.S. Fish and Wildlife Service, Endangered Species Division	Management: Planning	Internal Field Assistance	
Guam rail (Rallus owstoni)	2	713	Develop methods for releasing rails on Rota	Partially Complete	Prior to FY 1995		Guam Division of Aquatic & Wildlife Resources, U.S. Fish and Wildlife Service, Endangered Species Division	Research: Reintroduction	Graduate Student, Internal Field Assistance	
Guam rail (Rallus owstoni)	2	714	Release rails on Rota	Partially Complete	Prior to FY 1995		Guam Division of Aquatic & Wildlife Resources, U.S. Fish and Wildlife Service, Endangered Species Division	Management: Reintroduction, Research: Reintroduction	Graduate Student, Internal Field Assistance	It is not believed that the Guam rail is established on Rota at this time. Therefore, additional rail releases are planned.
Guam rail (Rallus owstoni)	3	721	Determine optimum sites for releasing rails on Guam	Partially Complete	FY 1995 - FY 1999		Guam Division of Aquatic & Wildlife Resources, U.S. Fish and Wildlife Service, Endangered Species Division	Management: Reintroduction	Internal Field Assistance	
Guam rail (Rallus owstoni)	2	722	Develop methods for releasing rails on Guam	Partially Complete	FY 1995 - FY 1999		Guam Division of Aquatic & Wildlife Resources, U.S. Fish and Wildlife Service, Endangered Species Division	Research: Reintroduction	Graduate Student, Internal Field Assistance	

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Guam Micronesian kingfisher (Halcyon cinnamomina), Guam rail (Rallus owstoni)	3	725	Release rails on Guam	Partially Complete	FY 1995 - FY 1999		Guam Division of Aquatic & Wildlife Resources, U.S. Fish and Wildlife Service, Endangered Species Division	Management: Reintroduction	Internal Field Assistance	Guam rails were released on Cocos Island in November 2011 and observations of successful reproduction were recorded in March 2011.
Guam Micronesian kingfisher (Halcyon cinnamomina), Mariana (=aga) Crow (Corvus kubaryi), Guam rail (Rallus owstoni), Bridled white-eye (Zosterops conspicillatus)	3	81	Develop public awareness program: Develop Conservation curriculum	Not Started			Guam Division of Aquatic & Wildlife Resources, Division of Fish and Wildlife, Commonwealth of the Northern Mariana Islands, U.S. Fish and Wildlife Service, Endangered Species Division	Other: Information and Education	Internal Administrative, Internal Field Assistance	
Guam Micronesian kingfisher (Halcyon cinnamomina), Mariana (=aga) Crow (Corvus kubaryi), Guam rail (Rallus owstoni)	3	82	Develop public awareness program: Prepare endangered species display	Ongoing Current	Prior to FY 1995		Guam Division of Aquatic & Wildlife Resources, Division of Fish and Wildlife, Commonwealth of the Northern Mariana Islands	Other: Information and Education	Contract, Internal Administrative, Internal Field Assistance	
Guam Micronesian kingfisher (Halcyon cinnamomina), Mariana (=aga) Crow (Corvus kubaryi), Guam rail (Rallus owstoni), Bridled white-eye (Zosterops conspicillatus)	3	83	Develop public awareness program: Develop a Coop education program for military personnel on Guam	Not Started			Guam Division of Aquatic & Wildlife Resources, U.S. Fish and Wildlife Service, Endangered Species Division, United States Air Force , United States Navy	Other: Information and Education	Contract, Internal Administrative, Internal Field Assistance	